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NEWS 4 Oct 09 Number of Derwent World Patents Index updates increased
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NEWS 7 Oct 22 DGENE GETSIM has been improved
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NEWS 13 Nov 30 Files VETU and VETB to have open access
NEWS 14 Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS 15 Dec 10 DGENE BLAST Homology Search
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NEWS 17 Dec 17 STANDARDS now available on STN
NEWS 18 Dec 17 New fields for DPCI
NEWS 19 Dec 19 CAS Roles modified
NEWS 20 Dec 19 1907-1946 data and page images added to CA and CAplus
NEWS 21 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web
NEWS 22 Jan 25 Searching with the P indicator for Preparations
NEWS 23 Jan 29 FSTA has been reloaded and moves to weekly updates
NEWS 24 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update frequency
NEWS 25 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02

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=> s sulfotransferase (3a) phenol/aryl
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L1 0 SULFOTRANSFERASE (3A) PHENOL/ARYL

=>

=> s sulfotransferase (3a) (phenol (w) aryl)
L2 7 SULFOTRANSFERASE (3A) (PHENOL (W) ARYL)

=> dup rem l2
PROCESSING COMPLETED FOR L2
L3 3 DUP REM L2 (4 DUPLICATES REMOVED)

=> d bib abs 1-
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L3 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AN 1994:366738 BIOSIS
DN PREV199497379738
TI Inhibition of phenol sulfotransferase by pyridoxal phosphate.
AU Bartzatt, Ron; Beckmann, Joe D. (1)
CS (1) Univ. Nebraska Med. Cent., Dep. Intern. Med., 600 S. 42nd St., Omaha, NE 68198-5300 USA
SO Biochemical Pharmacology, (1994) Vol. 47, No. 11, pp. 2087-2095. ISSN: 0006-2952.
DT Article
LA English
AB The biologically abundant cofactor, pyridoxal-5-phosphate (PLP), is a potent inhibitor of bovine ***phenol*** (***aryl***) ***sulfotransferase*** (PST). Preincubation of purified enzyme with as little as 1 mu-M PLP decreased PST activity by 50%. Excess 2-naphthol protected PST from inactivation by PLP, whereas 2-naphthyl sulfate and PAPS were not protective. Although PLP inhibition was apparently competitive with 2-naphthol, a steady-state kinetic K-i value could not be measured due to non-linear Lineweaver-Burk plots in the presence of the inhibitor. Kinetic progress curves revealed that this was due to progressive loss of activity during catalysis. The kinetics of inactivation of PST by PLP were pseudo-first-order and exhibited saturation. The derived K-i value for the binding of PLP to PST in the initial reversible step was 23 mu-M, with a maximal rate of inactivation of 0.077 min-1. Absorbance spectra of the PST/PLP complex indicated the formation of a Schiff base conjugate, and this is consistent with decreased electrophoretic mobility of the protein-PLP adduct in the presence of dodecyl sulfate only after reduction with borohydride. These results point to the possible regulation of an important detoxification enzyme by a ubiquitous cofactor.

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 1994:28010 CAPLUS
DN 120:28010
TI Phenol sulfotransferase expression in the airways: enzymological and immunohistochemical demonstration
AU Beckmann, Joe D.; Spurzem, John R.; Rennard, Stephen I.
CS Med. Cent., Univ. Nebraska, Omaha, NE, 68198, USA
SO Cell Tissue Res. (1993), 274(3), 475-85
CODEN: CTSRCS; ISSN: 0302-766X
DT Journal
LA English
AB ***Phenol*** (***aryl***) ***sulfotransferase*** (PST) activity in tracheal through 4th generation bronchial mucosal cytosols was 0.1-0.35 nmol/mg protein/min. Activity was generally greater in more distal bronchi and in parenchymal exts., which contained 0.6-3 nmol/mg/min PST activity. Comparison of the PST activities of bronchial and parenchymal cytosols indicated similar pH activity profiles, although steady-state kinetic measurements revealed different Km values for the acceptor substrate 2-naphthol (13.7 .mu.M for bronchial, 31.3 .mu.M for parenchymal). Anion exchange chromatog. indicated 2 PST isoforms being expressed in different ratios. Immunoblot anal. with mouse anti-bovine PST revealed a closely spaced doublet at 32 kDa in both bronchial mucosal and parenchymal cytosolic exts.; however, this doublet was unequally stained in parenchymal exts. Immunohistochem. analyses revealed faint pos. staining of the tracheobronchial epithelium. Greatest immunostaining was obsd. in the nonciliated secretory epithelial cells of the bronchioles, whereas surrounding smooth muscle, endothelial cells, and alveoli were immunoneg. These results are consistent with the known locations of other detoxification enzymes within the airways.

L3 ANSWER 3 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2
AN 1993:164420 BIOSIS
DN PREV199395085470
TI Molecular cloning of cDNA encoding the ***phenol*** / ***aryl*** form of ***sulfotransferase*** (mST-p1) from mouse liver.
AU Kong, Ah-Ng Tony (1); Ma, Meihui; Tao, Deling; Yang, Linding
CS (1) Div. Clinical Pharmacology, Thomas Jefferson Univ., 1100 Walnut Street, Room 601, Philadelphia, PA 19107 USA
SO Biochimica et Biophysica Acta, (1993) Vol. 1171, No. 3, pp. 315-318. ISSN: 0006-3002.
DT Article
LA English
AB The cDNA sequence of the mouse liver ***phenol*** / ***aryl*** form of ***sulfotransferase*** (mST-p1) has been determined. The cloned cDNA consists of 1269 base pairs (bp) and contains an 897 nucleotide open reading frame (ORF) beginning at nucleotide 65, which encodes a 298 amino acid polypeptide of 34.7 kDa. Alignment of mST-p1 to other sulfotransferases shows overall identities of 87% to r-ST-p, 37% to r-ST-a, 48% to r-ST-e, 51% to b-ST-e, and 37% to h-ST-a, at the deduced amino acid level.

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